

"筌筌" 注塑机

TSUENSAINT SERIES INJECTION MOLDING MACHINE



"筌筌" 压铸机

TSUENSAINT SERIES DIE-CASTING MACHINE



NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD.
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大型冲压自动化方案解决专家

LARGE POWER PRESS
AUTOMATION SOLUTIONS EXPERTS

NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO., 宁波筌筌科技发展有限公司

TSUEN SAINT 荃笙
HIGH PRECISION POWER PRESS



宁波荃笙科技发展有限公司，专心致力于高精冲压机床设备的集研发、设计、生产、销售和服务，主营产品包含各类开式、闭式单/双点机械式、伺服冲床和高速冲床近20个系列，涵盖了从25吨到2500吨等30多种规格的机型。产品广泛应用于新能源、家电制造、仪器仪表、汽车配件、电机制造、电器制造、医疗器械、五金等金属制品加工领域。凭借公司二十多年的专业制造高精冲压机床技术经验及创新能力，公司科研技术团队能够为用户提供个性化工程设计和冲压集成解决的专业方案与服务。

NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD. is dedicated to the R&D, design, manufacture, sales and service of high-precision presses. The products cover mechanical and servo presses with gap frame, C-frame, single/double points structure and high-speed presses, nearly 20 series, more than 30 types of models with capacity from 25 tons to 2,500 tons. Products are widely used in new energy, home appliance manufacturing, instrumentation, auto parts, motor manufacturing, electrical manufacturing, medical equipment, hardware and other metal processing fields. Relying on the professional experience of more than 20 years in metal stamping and innovation capabilities, our technical teams are able to provide customers with professional solutions and services for personalized engineering design and stamping integration solutions.

APG SERIES

H-Frame High Speed Precision Press
龙门高速精密冲床



- 高刚性
- 高精度
- 高稳定性
- HIGH RIGIDITY
- HIGH PRECISION
- HIGH STABILITY

60-550T

Standard Unit 标准装置

- Hydraulic mould locking device
- Automatic slide adjust device
- Automatic lubrication device
- Balance device
- Main motor (adjustable)
- Electrical stroke counter
- Crank angle indicator
- Die height indicator
- Air ejector receptacle (1/2")
- Air source receptacle (1/2")
- Cooler
- Maintenance tool box
- Operation manual
- Touch pad(preset ,total counter)
- Hydraulic bolster adjust device
- Hydraulic slide adjust device
- 油压锁模装置
- 电动滑块调整装置
- 自动机油润滑装置
- 滑块及模具平衡装置
- 主电机(可调速)
- 译码器
- 曲轴角度指示器
- 数字式模高指示器(0.1mm)
- 空气吹料接头(1/2")
- 空气源接头(1/2")
- 冷却机
- 维护工具及工具箱
- 使用说明书及精度检查成绩表
- 触摸屏(预断、预裁、总计数)
- 液压升降工作台装置
- 液压调模装置

选购项目

Optional

- 防震装置
- 喷风装置(1/2")
- 误送检知装置
- 齿轮送料机
- 料架
- 整平机
- 举模器
- 举模臂
- 选择夹式送料扣
- Anti-vibration amounts
- Air ejector (1/2")
- Misfeed detection consent
- consent
- Wheel feeder
- Uncoiler
- Leveler
- Die lifter
- Die arm

Adjusting screw type hydraulic locking device

Effectively eliminate the gap in the thread pair of adjusting screw to ensure the lower dead point precision.

Lubrication system

The use of forced light oil lubrication cooling system, so that the bearings can be fully lubricated to reduce the crankshaft and frame thermal strain, to ensure that the press in different circumstances precision stability,prolong the mechanical life.

Bearing

The bearings in the punching machine are SKF, AKS, NSK and other imported bearings, which provide a strong guarantee for the stability and reliability of the high-speed operation of the press.

Energy Saving Device

The main motor and the slide adjusting motor are energy-saving inverter control, using a small amount of electrical energy to complete a larger workload.

HMI

All-in-one Touch Screen Control screen, specially developed for stamping operation software, big memory capacity, fault detection capability, easy maintenance.

Precision Standard

Strictly implement Japanese JIS special precision grade standard

调整螺杆液压锁紧装置

消除调整螺杆螺纹副中的间隙，保证下死点精度

润滑系统

采用强制稀油润滑冷却系统，使轴承得到充分润滑，降低曲轴与机身的热应变，确保冲床在不同环境下精度稳定，延长机械寿命

轴承

冲床中的轴承均采用SKF、FAG、NSK及AKS等进口轴承为冲床高速运行的稳定性和可靠性提供有力保障

节能装置

主马达和调模马达均采用节能变频控制，可用很少的电能完成较大的工作量。

人机界面

一体式触摸屏控制界面，专门为冲压作业开发的软件，记忆容量大，具备故障侦测能力，维修方便。

精度标准

严格执行日本JIS特级精度标准

Frame

- Split casting frame, using high-strength cast iron, and stress elimination, to ensure the long-term stability of precision.
- Four pillars using hydraulic preload device, twice times the nominal force will be fastened to the frame to ensure the high rigidity of the fuselage.
- The finite Element analysis method is adopted to make the strength and strain of the mechanism reach the optimum design.

Guide Structure

- Six circular guide pillar structure design, guide pillar and Slider guide pillar are used without clearance linear bearings, to eliminate the impact of the swing of the connecting rod to the slide, and improve the resistance of the slide load capacity.

Crankshaft

- Nickel-chromium-molybdenum alloy steel, through heat treatment, grinding and other precision processing to ensure strength and precision.

Dynamic Balancing Device

- Excellent dynamic balance design, can reduce vibration and noise to the greatest extent, and improve the service life of mould.

机身

- 分体式铸造机身，采用高强度铸铁，并经应力消除，确保精度的长期稳定。
- 四根立柱采用液压预紧装置，以两倍公称力将机身紧固连接，确保机身的高刚性。
- 采用有限元分析法，使机构的强度和应变达到最优的设计。

导正机构

- 采用六圆导柱的结构设计，导柱及滑块导柱均采用无间隙线性轴承，消除连杆摆动对滑块的影响，并提高滑块的抗偏载能力。

曲轴

- 采用镍铬钼合金钢，经热处理、研磨等精密加工，确保强度和精度。

动平衡装置

- 优异的动平衡设计，可最大程度的降低振动和噪音，提升模具的使用寿命。

项目	item	单位	APG-60	APG-80	APG-125	APG-220	APG-300	APG-400	APG-550
吨数	Capacity	ton	60	80	125	220	300	400	550
行程	Stroke	mm	30	30	30	30	30	40	40
能力发生点	Capacity occur point	mm	2	2	3.2	3.2	3.2	3.2	1.6
每分钟行程数	Strokes per minute	s.p.m	150~700	150~700	150~600	150~500	150~400	100~220	70~150
下工作台尺寸	Bolster area	mm	950x650	1100x750	1400x850	1800x950	2300x1000	2600x1200	3100x1500
下料孔	Bolster hole	mm	700x125	800x150	1100x200	1400x250	2000x300	2300x400	2600x500
滑块面积	Slide	mm	950x420	1100x500	1400x600	1800x700	2300x900	2600x1100	3100x1400
模高调整行程	Area adjustment	mm	300-350	330-380	360-410	370-420	400-460	450-550	500-600
模高调整马达	Adjusting motor	kw	0.4	0.75	0.75	1.5	2.2	2.2	3.7
主电动机	Main motor	kw	19	22	37	45	55	75	90